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TO:

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FROM: Douglas P. Mueller

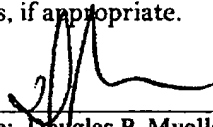
OUR REF: 10873.1761USWO

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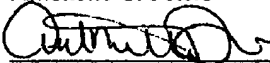
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Title of Document: Request for Corrected Filing Receipt
Form PCT/IPEA/409Applicant: SASAKI et al.
Serial No.: 10/549,494
App. Filed: September 15, 2005
Group Art No.: 1722
Conf. No.: 7729Please charge any additional fees or credit overpayment to Deposit Account No.
50-3478. Please consider this a PETITION FOR EXTENSION OF TIME for a
sufficient number of months to enter these papers, if appropriate.By: 
Name: Douglas P. Mueller
Reg. No.: 30,300I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark
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S/N 10/549,494

PATENTIN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: SASAKI et al.

Serial No.: 10/549,494

Group Art Unit: 1722

Filed: September 15, 2005

Docket No.: 10873.1761USWO

Title: METHOD FOR PRODUCING GROUP-III-ELEMENT NITRIDE SINGLE
CRYSTALS AND APPARATUS USED THEREIN

CERTIFICATE UNDER 37 CFR 1.6(d)

I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark Office on September 1, 2006.

By: 

Name: Antonette C Peters

REQUEST FOR CORRECTED FILING RECEIPTCommissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Enclosed is a photocopy of the filing receipt from the United States Patent and Trademark Office in the above-identified application showing requested corrections.

The first inventor's name is incorrect. Please replace [TAKATAMO] with TAKATOMO.

The title is incorrect. Please record the title for this application as follows.

METHOD FOR PRODUCING GROUP-III-ELEMENT NITRIDE SINGLE CRYSTALS AND
APPARATUS USED THEREIN

This title includes minor editorial changes from the title of the International Publication Page. This editorial amendment mirrors the amendment made in the preliminary amendment, submitted on September 15, 2005.

Correction of the records of the United States Patent and Trademark Office and issuance of a corrected filing receipt are respectfully solicited.

Respectfully submitted,

52835

PATENT TRADEMARK OFFICE

HAMRE, SCHUMANN, MUELLER &
LARSON, P.C.
P.O. Box 2902
Minneapolis, MN 55402-0902
(612) 455-3800Dated: September 1, 2006By: Douglas P. Mueller
Reg. No. 30,300
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Page 1 of 3



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/549,494	09/15/2005	1722	1800	10873.1761USWO	5	38	1

CONFIRMATION NO. 7729

52835
 HAMRE, SCHUMANN, MUELLER & LARSON, P.C.
 P.O. BOX 2902-0902
 MINNEAPOLIS, MN 55402

FILING RECEIPT



OC000000018618418

Date Mailed: 04/27/2006

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

TAKATOMO

[Takatom] Sasaki, Suita-shi, JAPAN;
 Yusuke Mori, Suita-shi, JAPAN;
 Masashi Yoshimura, Suita-shi, JAPAN;
 Fumio Kawamura, Suita-shi, JAPAN;
 Hidekazu Umeda, Suita-shi, JAPAN;

Assignment For Published Patent Application

Osaka Industrial Promotion Organization, Osaka-shi, Osaka, JAPAN

Power of Attorney: The patent practitioners associated with Customer Number 52835.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP04/03391 03/15/2004

Foreign Applications

JAPAN 2003-072687 03/17/2003

If Required, Foreign Filing License Granted: 04/25/2006

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US10/549,494**

Projected Publication Date: 08/03/2006

103

Page 2 of 3

Non-Publication Request: No

Early Publication Request: No

Title

ELEMENT THEREIN

V

Method for producing group III nitride single crystal and apparatus used [therefor]

Preliminary Class

117

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process simplifies the filing of patent applications on the same invention in member countries, but does not result in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

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Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4156).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference H2077-01	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/JP2004/003391	International filing date (day/month/year) 15.03.2004	Priority date (day/month/year) 17.03.2003
International Patent Classification (IPC) or national classification and IPC		
Applicant OSAKA INDUSTRIAL PROMOTION ORGANIZATION		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:

a. ☒ (sent to the applicant and to the International Bureau) a total of 7 sheets, as follows:

☒ sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

☒ Box No. I Basis of the report

☐ Box No. II Priority

☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

☐ Box No. IV Lack of unity of invention

☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

☐ Box No. VI Certain documents cited

☐ Box No. VII Certain defects in the international application

☐ Box No. VIII Certain observations on the international application

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/IP	Authorized officer
Facsimile No.	Telephone No.

Form PCT/IPEA/409 (cover sheet) (January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/003391

Box No. I

Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language _____ which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1-19 _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☒ the claims:
- nos. 1, 2, 4-7, 14-16, 20-23, 25, 28, 30, 31, 37-42 _____ as originally filed/furnished
- nos.* _____ as amended (together with any statement) under Article 19
- nos.* 3, 8-13, 17-19, 24, 26, 27, 29, 35 received by this Authority on 18.01.2003
- nos.* _____ received by this Authority on _____
- ☒ the drawings:
- sheets 1-7 _____ as originally filed/furnished
- sheets* _____ received by this Authority on _____
- sheets* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. ☒ The amendments have resulted in the cancellation of:
- ☐ the description, pages _____
- ☒ the claims, nos. 32-34, 36, 43-50
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (specify): _____
- ☐ any table(s) related to sequence listing (specify): _____
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (specify): _____
- ☐ any table(s) related to sequence listing (specify): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

Form PCT/IPEA/409 (Box No. I) (January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/003391

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	2-31, 35, 37-42	YES
	Claims	1	NO
Inventive step (IS)	Claims	2-31, 35, 37-42	YES
	Claims	1	NO
Industrial applicability (IA)	Claims	1-31, 35, 37-42	YES
	Claims		NO
2. Citations and explanations (Rule 70.7)			
Document 1: JP 2002-068895 A (Kobe Steel, Ltd.), 8 March 2002			
Document 2: JP 60-122797 A (Toshiba Corporation), 1 July 1985			
Document 3: Fumio Kawamura et al., "Synthesis of bulk GaN single crystals using Na-Ca flux", Japanese Journal of Applied Physics, 15 December 2002, Part 2, Vol. 41, No. 12B, pages 1440 to 1442			
Document 4: JP 2002-293696 A (Japan Science and Technology Foundation), 9 October 2002			
Document 5: JP 2001-039791 A (Japan Science and Technology Foundation), 13 February 2001			
(1) The invention set forth in claim 1 lacks novelty in the light of documents 1 and 2 cited in the international search report.			
Documents 1 and 2 set forth a method for producing a nitride single crystal obtained by mixing a molten solution and flux by rotation.			
(2) The inventions set forth in claims 2 to 14, 17 to 28, 35 and 37 to 42 involve an inventive step in relation to			

Form PCT/IPEA/409 (Box No. V) (January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/003391

Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement

documents 1 to 5 cited in the international search report.

Documents 1 to 5 do not indicate that a reaction vessel is shaken, and it would not be easy for a person skilled in the art to conceive of said feature in the light of the feature set forth in documents 1 and 2, wherein molten solution and flux are rotated.

(3) The invention set forth in claims 15 and 16 involves an inventive step in relation to documents 1 to 5 cited in the international search report.

Documents 1 to 5 do not indicate that Na and Li are used in flux, and it would not be easy for a person skilled in the art to conceive of said feature in the light of the feature set forth in document 3, wherein a mixed flux of Na and Ca is used.

(4) The invention set forth in claims 29 to 31 involves an inventive step in relation to documents 1 to 5 cited in the international search report.

Documents 1 to 5 do not indicate that the material of the beater blades is Y_2O_3 , CaO, MgO or W, and it would not be easy for a person skilled in the art to conceive of said feature in the light of the feature set forth in document 5, wherein beater blades are made from a precious metal.

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